Doc Code: AP.PRE.REQ PTO/SB/33 (07-09)
Approved for use through 07/31/2012. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

PRE-APPEAL BRIEF REQUEST FOR REVIEW		Docket Number (Optional)		
		5497-015		
I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to "Mail Stop AF, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450" [37 CFR 1.8(a)]	Application Number		Filed	
	10/789485		2004-02-27	
on May 20, 2010	First Named Inventor			
Signature_/Karen S. Schuller/	Thilo Stolze			
	Art Unit		Examiner	
Typed or printed Karen S. Schuller name	2811		Andrew Owens Arena	
Applicant requests review of the final rejection in the above-identified application. No amendments are being filed with this request. This request is being filed with a notice of appeal. The review is requested for the reason(s) stated on the attached sheet(s). Note: No more than five (5) pages may be provided.				
I am the				
applicant/inventor.		/Mark R. Bilak Reg. No. 47423/		
assignee of record of the entire interest.	Mark	R. Bilak	Signature	
See 37 CFR 3.71. Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96)	Typed or printed name			
attorney or agent of record. Registration number	(919)	(919) 854-1844		
. togication names.	Telephone number			
attorney or agent acting under 37 CFR 1.34.	Мау	20, 2010		
Registration number if acting under 37 CFR 1.34	_		Date	
NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below*.				

This collection of information is required by 35 U.S.C. 132. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11, 1.14 and 41.6. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Mail Stop AF, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

*Total of

forms are submitted.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of Stolze)) PATENT PENDING
Serial No.: 10/789,485) PATENT PENDING)
Filed: February 27, 2004) Examiner: Mr. Andrew Owens Arena)) Group Art Unit: 2811
For: Power Semiconductor Module) Confirmation No.: 7994
Docket No: 5497-015)
Mail Stop AF Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450	CERTIFICATE OF MAILING OR TRANSMISSION [37 CFR 1.8(a)] I hereby certify that this correspondence is being: deposited with the United States Postal Service on the date shown below with sufficient postage as first class mail in an envelope addressed to: Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450. transmitted by facsimile on the date shown below to the United States Patent and Trademark Office at (571) 273-8300.
	This correspondence is being:
	☑ electronically submitted via EFS-Web

ARGUMENTS SUBMITTED WITH PRE-APPEAL BRIEF REQUEST FOR REVIEW

The claim rejections are based on clear error at least for the reasons given below, and therefore all claim rejections must be withdrawn. First, the pending independent claims recite the connecting elements are formed by recesses in the module housing and the module housing encloses the substrate regions. In support of the claim rejections, it is argued at lines 9-10 on p. 2 of the Advisory Action that the entire assembly shown in Figure 4 of the Ali reference is akin to the claimed housing, including socket 20 and the void/open region shown in the middle part of the socket 20.

This finding directly contradicts the express teachings of the Ali reference. Neither the socket nor the void/open region in the middle of the socket 20 is formed by a recess in a housing as claimed. In direct contrast, the socket 20 with the open space/void is <u>contained</u> within Ali's housing. In support of Applicants' position, the Ali reference explicitly defines element 11 in Figure 4 as the housing of a system 10 such as a computer (*c.f.* col. 2, lines 8-16

of Ali). The Ali reference further explicitly states that a support structure 12 such as a main circuit board or some other support structure includes the socket 20, and the socket 20 has ports for coupling to electronic devices 14 and 16 (*c.f.* col. 2, lines 8-11 of Ali). The support structure 12 with socket 20 and the electronic devices 14 and 16 are "contained within the housing 11" of the system 10 according to the express teachings of the Ali reference (*c.f.* col. 2, lines 11-13 of Ali) (emphasis added). Therefore, the entire assembly shown in Figure 4 of the Ali reference is not a housing as argued in the Advisory Action. Instead, only element 11 in Figure 4 of the Ali reference is a housing. To find otherwise ignores the express teachings of the Ali reference. The claim rejections must be withdrawn because neither the socket 20 nor the void/open region in the middle of the socket 20 is formed by a recess in Ali's housing 11 as claimed.

In addition, each pending independent claim recites that the recesses extend from an exterior of the housing. The term "exterior" is used in the pending claims as a <u>noun</u> and <u>not and adjective</u>, and is properly construed to mean "the outer surface or part; outside" as proffered in the office action reply filed on 19 April 2010. The Examiner does not dispute this construction (*c.f.* line 12 on p. 2 of the Advisory Action). However, it is argued at lines 19-20 on p. 2 of the Advisory Action "for extended bodies with many pieces contained in the interior, <u>the idea of extending from an exterior is properly and reasonably interpreted to include items on the interior</u>" (emphasis added).

The recess extending from the exterior of the housing as claimed cannot include "items on the interior" as argued by the Examiner in the Advisory Action. Such a construction strips the noun "exterior" of any appreciable meaning. Items on the interior of a housing do not include the outer surface or outside of the housing. Moreover, the Examiner gives an example of a residential home with a dividing wall extending into a room from an exterior wall in further

support of the Patent Office's position. However, this example uses the word "exterior" as an adjective to describe the wall, not a noun as used in the pending claims.

Socket 20 of Ali's system 10 does not extend from the <u>exterior</u> of housing 11 as claimed. Instead, the socket 20 <u>abuts the interior surface</u> of circuit board 12 and extends downward to lower plate 66 as shown in Figures 2 and 4 of Ali. No reasonable construction of the term "exterior" can include the <u>interior surface</u> of the circuit board 12 to which the sockets 20 are attached. To find otherwise would directly contradict the plain and ordinary meaning of the noun "exterior." Accordingly, all claim rejections are in clear error and must be withdrawn because the alleged connecting elements in the Ali reference (sockets 20) extend from the interior of the circuit board 12, not the exterior of housing 11 as claimed.

Also, the Examiner misinterprets Figure 3 of the instant application. In referring to Figure 3 of the instant application, the Examiner states that recess 130 extends from top side 140 of housing 120 without the recess itself being outside (*c.f.* the second last sentence on p. 2 of the Advisory Action). Figure 3 of the instant application shows a second embodiment of the claimed invention where recesses 130 and 131 formed in housing 120 extend from the exterior module underside 125. Thus, the embodiment shown in Figure 3 of the instant application is consistent with and fully supports Applicants' position that the claimed recesses formed in the housing extend from an exterior, *i.e.*, outer surface or outside of the housing. Applicants note that Figure 1 of the instant application shows a first embodiment of the claimed invention where recesses 35 and 36 formed in housing 20 extend from the exterior module topside. In both embodiments, the recesses formed in the housing extend from an exterior, *i.e.*, outer surface or outside of the housing as claimed. The claim rejections are based on further error and therefore must be withdrawn for this yet additional reason.

Application Ser. No. 10/789,485 Attorney Docket No. 5497-015 EUP041US/2001P12376US01

Respectfully submitted, COATS & BENNETT, P.L.L.C.

Mark R. Bilak

Dated: May 20, 2010

Registration No.: 47,423

1400 Crescent Green, Suite 300 Cary, NC 27518

al P. Bil

Telephone: (919) 854-1844 Facsimile: (919) 854-2084